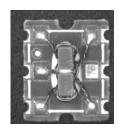
# E-Series 75 Ohm Coupler 5 - 1000 MHZ



#### **Features**

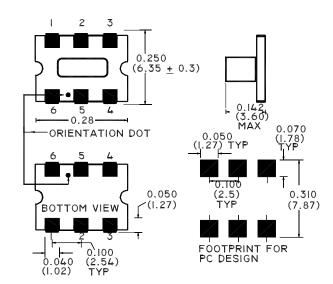
- Coupling 14db Typical
- Surface Mount
- Tape and Reel Packaging available



## **Description**

M/A-COM's ELDC-14 is a high performance 75 Ohm Coupler, in an SM-55 low cost, surface mount package. The ELDC-14 is designed for use in high volume CATV applications. Typical applications include Set-top Boxes, Network Interface Units, Cable Amplifiers and Headend equipment.

## SM-55 Package



# Electrical Specifications @25°C, $Z_0 = 75$ Ohms

Frequency Range 5 - 1000 MHz		Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 870 MHz 870 - 1000 MHz	dB dB	_	0.8 1.0	_	1.5 1.8
Coupling	5 - 870 MHz 870 - 1000 MHz	dB dB	14.3 14.3	_ _		± 0.5 ± 0.7
Coupling Flatness		dB	_	_	_	0.8
Directivity	5 - 870 MHz 870 - 1000 MHz	dB dB	_ _	25 20	15 13	
Input Return Loss	5 - 870 MHz 870 - 1000 MHz	dB dB		25 23	20 18	
Output Return Loss	5 - 870 MHz 870 - 1000 MHz	dB dB		25 25	20 20	
Coupled Return Loss	5 - 870 MHz 870 - 1000 MHz	dB dB		23 23	18 18	

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- Visit www.macomtech.com for additional data sheets and product information

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## **Operating Characteristics**

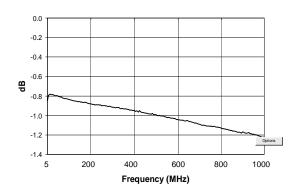
Function	Pin No.		
Input	6		
Output	1		
Coupled	4		
External 75 Ohms	3		
Ground	5		
Not Connected	2		

# **Absolute Maximum Ratings**

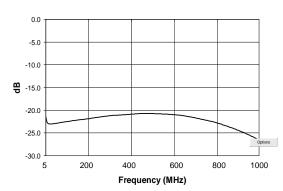
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Pin Temperature (10 sec)	260°C		
Operating/Storage Temperature	-40°C to +85°C		

# Typical Performance @ 25°C

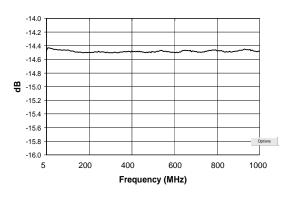
#### **Mainline Loss**



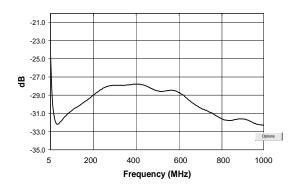
#### **Input Return Loss**



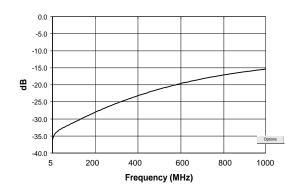
## Coupling



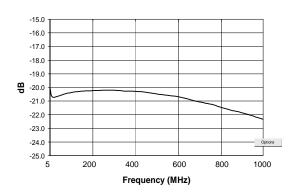
## **Output Return Loss**



#### Directivity



#### **Coupled Port Return Loss**



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- and/or prototype measurements. Commitment to develop is not guaranteed.

  PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology
  Solutions has under development. Performance is based on engineering tests. Specifications are
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